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CIA/PIR-7/64
March 1964

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CENTRAL INTELLIGENCE AGENCY

PHOTOGRAPHIC INTELLIGENCE REPORT

SOVIET-TYPE SAM INSTALLATIONS, WACS 154, 155, 156, 158, AND 159

25X

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PREFACE

This is the third in a series of reports, prepared in response to CIA requirement C-RR3-80,733, presenting locational and other pertinent information on all Soviet-type surface-to-air missile (SAM) installations. 1/ 2/ Installations included are SAM launch sites (SA-1, SA-2, SA-3, and SA-0), antimissile-missile activities, SAM support facilities, SAM R & D and training facilities, and unidentified installations, possibly SAM-related. The information will be presented by World Aeronautical Chart (WAC), and within each WAC by SAM defense area, as determined from photography and collateral sources. When the defense function of an installation has not been determined, this will be so indicated. Where no installations have been identified in a WAC area, that WAC will be omitted.

INTRODUCTION

This report presents information on all Soviet-type SAM installations located in the areas covered by WACs 154, 155, 156, 158, and 159 and identified on photography. The cutoff date for this information is 13 January 1964. Figure 1 shows all the WAC areas, except Cuba, which will be covered in this series; those in red are covered in this report. WACs covered in the previous report are outlined in red, and the report number is indicated on the graphic. Diagrams of the configurations of the common types of SAM installations are presented in Figure 2. Information for each WAC is shown in a table (Tables 1-5), which gives detailed data, and a map (Figures 3-7), which indicates the location and type of each SAM installation. Because of the volume of data for WACs 154 and 156, Figures 3 and 5 have been repeated for easier reference.

Explanations of the columnar headings used in the tables are as follows:

Item--Given in a numerical sequence for each WAC, with numbers assigned to installations arbitrarily, and keyed to the accompanying WAC.

Name, Site Designator, BE Number--In accordance with the TDI. Absence of any of this information indicates that it was not available at the time of publication.

Coordinates--Given in degrees, minutes, and seconds, and plotted from series 200 US Air Target Charts unless otherwise indicated in next column.

Country & Map References--BE country codes used. Map reference is to the Air Target Chart sheet number (scale 1:200,000) unless otherwise indicated.

Type & Configuration--Indicates the type of SAM installation and its configuration as illustrated in Figure 2.

Mission & Date First Appears--Gives the number and date of the mission on which the installation was first sighted.

Mission & Date Installation Negated--Refers to the latest [redacted] photography on which it has been established that construction of the installation had not been started. Absence of any notation indicates that this information could not be determined.

Remarks--Covers items of special or unusual interest.

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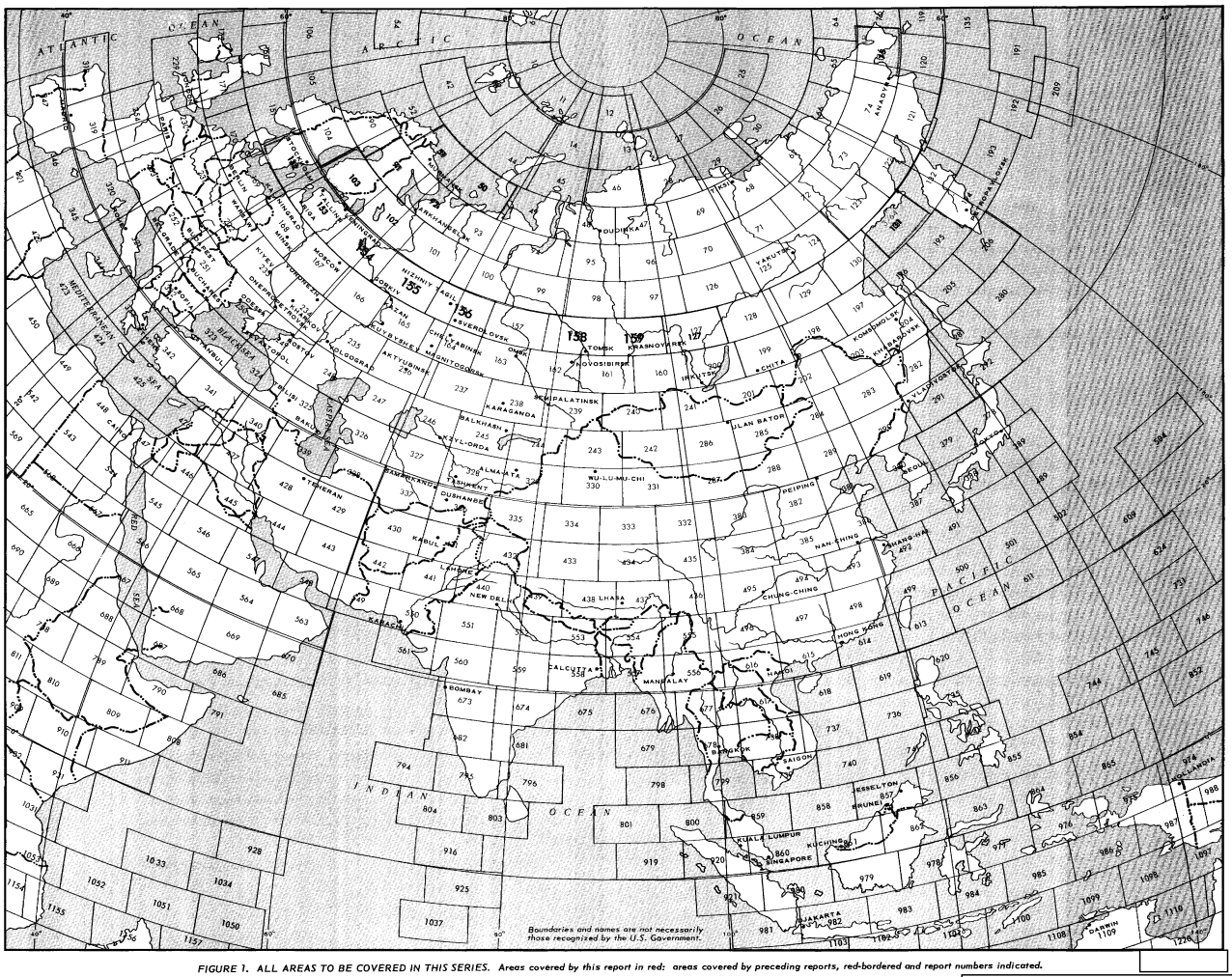
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INDIAN OCEAN
Boundaries and names are not necessarily those recognized by the U.S. Government.

FIGURE 1. ALL AREAS TO BE COVERED IN THIS SERIES. Areas covered by this report in red; areas covered by preceding reports, red-bordered and report numbers indicated.

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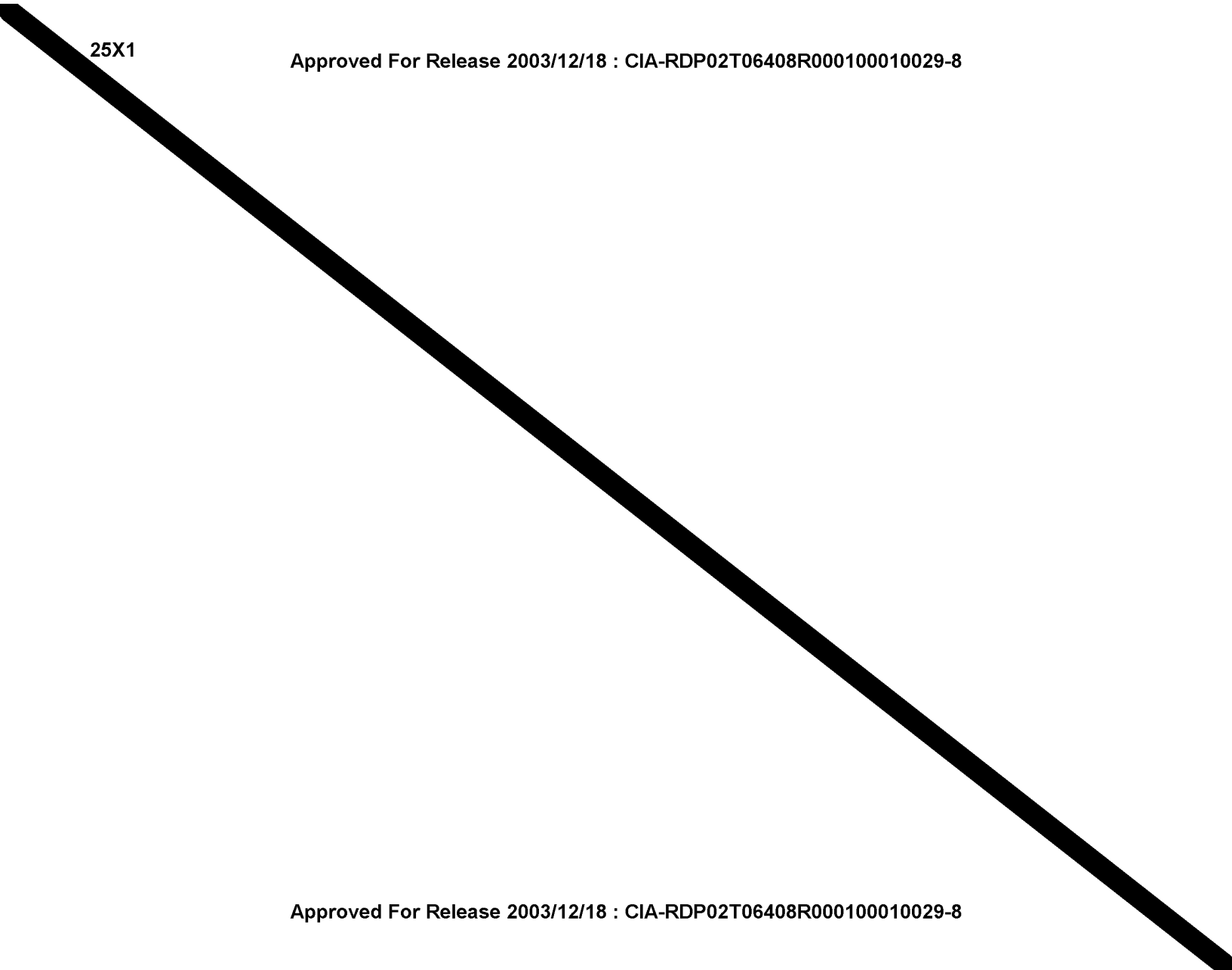

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Table 1. SAM Installations on WAC 154

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A.	Valday SAM Defenses						
1	Yedrovo ICBM Complex SAM Site A28-2,	57-50-05N 33-11-00E	UR 0154-11	SA-2, link			
2	Yedrovo ICBM Complex SAM Site B34-2,	58-02-50N 33-18-00E	UR 0154-11	SA-2, star			
B.	Cherepovets SAM Defenses (in defense of Cherepovets: river port, transportation center, and large metallurgical combine)						
3	Cherepovets SAM Site B33-2,	59-18-10N 37-38-55E	UR 0154-8	SA-2, link			
4	Cherepovets SAM Support Facility,	59-07-30N 38-02-00E	UR 0154-8	Type II (square)			
5	Cherepovets SAM Site A15-2,	59-00-00N 38-06-05E	UR 0154-8	SA-2, link			
C.	Rybinsk SAM Defenses (in defense of Rybinsk: shipbuilding and aircraft engine production, second largest hydroelectric power plant in USSR)						
6	Rybinsk SAM Site B01-2,	58-15-00N 38-51-00E	UR 0154-13	SA-2, link			
7	Rybinsk SAM Site B29-2,	58-06-40N 38-25-40E	UR 0154-13	SA-2, link			
8	Rybinsk SAM Support Facility,	58-02-45N 38-43-30E	UR 0154-13	Type I (rectangular)			
9	Rybinsk SAM Site B23-2,	57-53-30N 38-32-30E	UR 0154-13	SA-2, link			
10	Rybinsk SAM Site A13-2,	57-55-20N 39-04-10E	UR 0154-13	SA-2, link			
D.	Moscow SAM Defenses (in defense of Soviet capital--largest city in USSR: major military, industrial, and research center)						
11	Moscow SAM Site E29-3	56-01-10N 36-19-20E	UR 0154-22	SA-3, Configuration F			
12	Moscow SAM Site E30-1	56-01-10N 36-20-45E	UR 0154-22	SA-1, herringbone			
13	Moscow SA-3 SAM Training Facility,	56-00-15N 36-26-05E	UR 0154-22	SA-3, Configuration C			The proximity of the launch site to surrounding buildings indicates that this is a training facility.
14	Moscow SAM Site E31-1,	56-07-57N 36-29-38E	UR 0154-22	SA-1, herringbone			
15	Moscow SAM Site E32-1,	56-15-20N 36-37-52E	UR 0154-22	SA-1, herringbone			
16	Moscow SAM Site E32-3,	56-16-05N 36-38-00E	UR 0154-22	SA-3, Configuration G			
17	Moscow SAM Site E33-3,	56-21-40N 36-45-40E	UR 0154-22	SA-3, Configuration F			
18	Moscow SAM Site E33-1,	56-20-00N 36-48-27E	UR 0154-22	SA-1, herringbone			This is one of the four SA-1 sites at Moscow which shows possible AMM associated activity.
19	Moscow SAM Site E34-3,	56-25-35N 36-58-40E	UR 0154-22	SA-3, Configuration F			
20	Moscow SAM Site E34-1,	56-24-06N 37-00-32E	UR 0154-22	SA-1, herringbone			
21	Moscow SAM Site E35-3,	56-27-21N 37-10-08E	UR 0154-22	SA-3, Configuration F			
22	Moscow SAM Site E35-1,	56-26-16N 37-10-43E	UR 0154-22	SA-1, herringbone			
23	Moscow SAM Site E36-1,	56-28-58N 37-28-29E	UR 0154-23	SA-1, herringbone			
24	Moscow SAM Site E01-1,	56-28-50N 37-41-40E	UR 0154-23	SA-1, herringbone			
25	Moscow SAM Site E02-1,	56-28-20N 37-57-45E	UR 0154-23	SA-1, herringbone			
26	Moscow SAM Site E03-1,	56-22-28N 38-11-26E	UR 0154-23	SA-1, herringbone			
27	Moscow SAM Site E04-1,	56-20-07N 38-23-20E	UR 0154-23	SA-1, herringbone			
28	Moscow SAM Site E05-1,	56-14-35N 38-35-05E	UR 0154-23	SA-1, herringbone			This is one of the four SA-1 sites at Moscow which shows possible AMM associated activity.
29	Moscow SAM Site E06-1,	56-07-17N 38-43-14E	UR 0154-23	SA-1, herringbone			
30	Moscow SAM Site E07-1,	56-01-07N 38-50-56E	UR 0154-23	SA-1, herringbone			
31	Moscow SAM Site C31-1,	56-02-37N 37-00-38E	UR 0154-22	SA-1, herringbone			
32	Moscow SAM Site C33-1,	56-07-44N 37-11-40E	UR 0157-22	SA-1, herringbone			
33	Moscow SAM Site C35-1,	56-09-35N 37-23-13E	UR 0154-22	SA-1, herringbone			
34	Chernaya SAM Storage Site,	56-07-00N 37-29-00E	UR 0154-23	Missile assembly and storage plant			This is one of seven such facilities deployed around Moscow.

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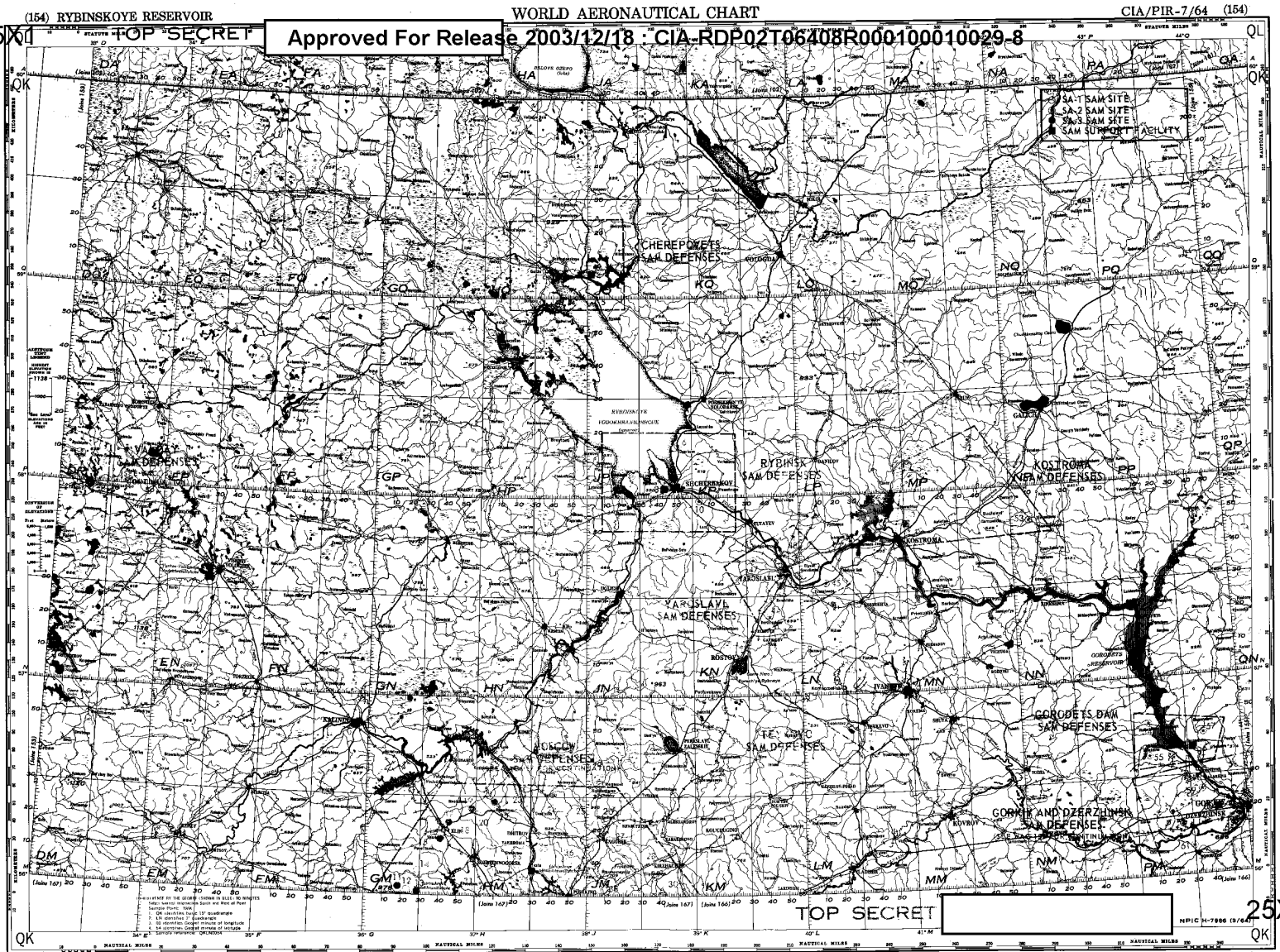

FIGURE 3. WAC 154 SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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Table 1. (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
D.	Moscow SAM Defenses (continued)						
35	Moscow SAM Site C36-1,	56-12-37N 37-36-18E	UR 0154-23	SA-1, herringbone			This site has a secured storage/support facility located in conjunction with it which consists of 9 large buildings.
36	Moscow SAM Site C02-1,	56-10-00N 37-49-16E	UR 0154-23	SA-1, herringbone			
37	Moscow SAM Site C04-1,	56-06-14N 38-00-46E	UR 0154-23	SA-1, herringbone			
38	Moscow SAM Site C05-1,	56-01-08N 38-10-58E	UR 0154-23	SA-1, herringbone			
E.	Teykovo ICBM Complex SAM Defenses (in defense of Teykovo ICBM Complex)						
39	Teykovo ICBM Complex SAM Site B29-2,	57-00-30N 39-57-20E	UR 0154-19	SA-2, link			
40	Ivanovo SAM Site B30-2,	57-09-15N 40-28-25E	UR 0154-19	SA-2, link			
41	Ivanovo SAM Site C22-2,	56-45-55N 40-35-00E	UR 0154-24	SA-2, link			
42	Ivanovo SAM Support Facility,	57-01-00N 40-50-40E	UR 0154-19	Type II (square)			
43	Ivanovo SAM Site A29-2,	57-01-00N 40-53-10E	UR 0154-19	SA-2, link			
F.	Yaroslavl SAM Defenses (in defense of Yaroslavl--oblast capital: motor vehicle plant-YaAZ, rubber and asbestos combine, POL refineries, and ammunition plant)						
44	Yaroslavl SAM Site B21-2,	57-28-10N 39-42-10E	UR 0154-19	SA-2, link			
45	Yaroslavl SAM Site B10-2,	57-33-40N 40-14-45E	UR 0154-19	SA-2, link			
46	Yaroslavl SAM Support Facility,	57-33-05N 39-50-15E	UR 0154-19	Type I (rectangular)			
47	Yaroslavl SAM Site B30-2,	57-40-47N 39-33-38E	UR 0154-13	SA-2, link			
48	Yaroslavl SAM Site B02-2,	57-47-45N 39-57-30E	UR 0154-14	SA-2, link			
G.	Kostroma ICBM Complex SAM Defenses (in defense of Kostroma ICBM Complex)						
49	Kostroma ICBM Complex SAM Site B21-2,	57-48-35N 41-03-05E	UR 0154-14	SA-2, link			
50	Kostroma SAM Support Facility,	57-49-00N 41-02-30E	UR 0154-14	Type II (square)			
51	Kostroma ICBM Complex SAM Site A32-2,	58-06-30N 41-05-30E	UR 0154-14	SA-2, link			
52	Kostroma ICBM Complex SAM Site B05-2,	58-14-10N 41-38-35E	UR 0154-14	SA-2, link			
53	Kineshma SAM Site C01-2,	57-49-30N 42-11-40E	UR 0154-15	SA-2, link			
H.	Gorodets Dam SAM Defenses (in defense of Gorodets dam and hydroelectric power plant)						
54	Gorkiy SAM Site D32-2,	56-46-00N 43-09-00E	UR 0154-25	SA-2, link			
55	Gorkiy SAM Site D31-2,	56-35-00N 43-09-20E	UR 0154-25	SA-2, link			
56	Gorodets SAM Support Facility,	56-38-30N 43-32-00E	UR 0154-25	Type I (rectangular)			
57	Gorkiy SAM Site C35-2,	56-42-00N 43-39-30E	UR 0154-25	SA-2, link			
I.	Gorkiy and Dzerzhinsk SAM Defenses (in defense of Gorkiy and Dzerzhinsk area--largest chemical center in USSR: motor vehicle plant-Gaz, POL refineries, jet aircraft plants, heavy equipment, armaments, and steel production)						
58	Gorkiy SAM Site B01-2,	56-31-40N 44-00-00E	UR 0154-25	SA-2, link			
59	Gorkiy SAM Site B31-2,	56-25-30N 43-36-30E	UR 0154-25	SA-2, link			
60	Gorkiy SAM Support Facility,	56-19-00N 43-44-00E	UR 0154-25	Type I (rectangular)			
61	Gorkiy SAM Site B24-2,	56-08-30N 43-30-45E	UR 0154-25	SA-2, link			
62	Gorkiy SAM Site B18-2,	56-03-45N 43-57-45E	UR 0154-25	SA-2, link			

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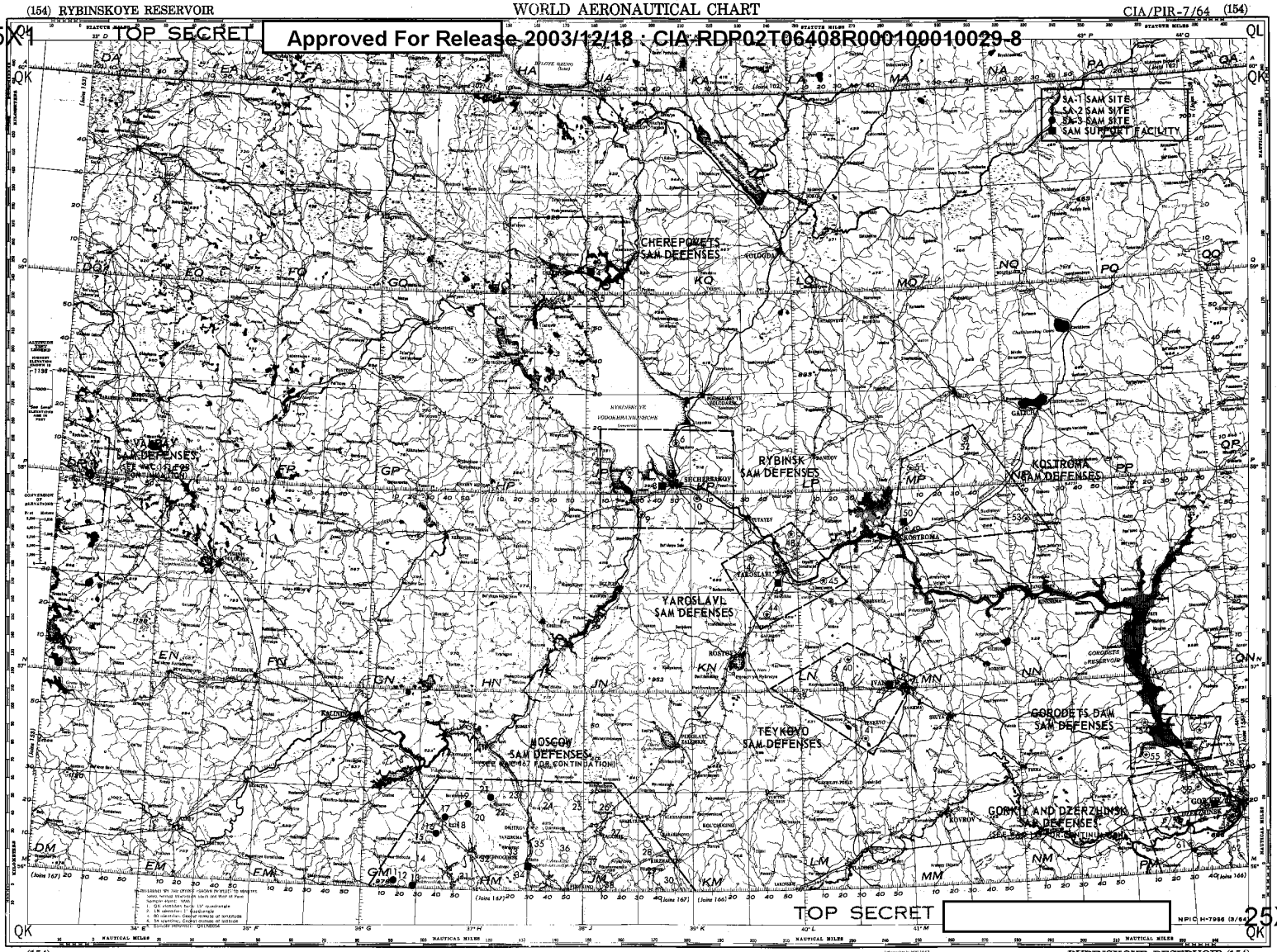

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FIGURE 3 (REPEAT). WAC 154, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 2. SAM Installations on WAC 155

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Gorkiy and Dzerzhinsk SAM Defenses (in defense of Gorkiy and Dzerzhinsk area--largest chemical center in USSR: motor vehicle plant-Gaz, POL refineries, jet aircraft plants, heavy equipment, armaments, and steel production)							
1	Gorkiy SAM Site B11-2,	56-16-15N 44-18-10E	UR 0155-21	SA-2, link			
B. Yoshkar-Ola ICBM Complex SAM Defenses (in defense of Yoshkar-Ola ICBM Complex)							
2	Yoshkar-Ola ICBM Complex SAM Site C13-2,	56-24-50N 48-46-40E	UR 0155-23	SA-2, link			
3	Yoshkar-Ola ICBM Complex SAM Site B18-0,	56-23-00N 48-14-00E	UR 0155-22	SA-0, Category I			
4	Yoshkar-Ola ICBM Complex SAM Site B27-2,	56-33-00N 47-50-00E	UR 0155-22	SA-2, link			
5	Yoshkar-Ola ICBM Complex SAM Support Facility	56-39-40N 47-59-10E	UR 0155-22	Type II (square)			
6	Yoshkar-Ola ICBM Complex SAM Site B35-0,	56-44-20N 48-06-00E	UR 0155-22	SA-0, Category I			
7	Yoshkar-Ola ICBM Complex SAM Site C06-2,	56-46-10N 48-36-00E	UR 0155-23	SA-2, star			
8	Yoshkar-Ola ICBM Complex SAM Site D06-2,	56-55-10N 49-14-26E	UR 0155-18	SA-2, link			This site is slightly removed from ICBM launch complex, and may represent the first indication of a barrier defense stretching between Yoshkar-Ola and Kirov.
C. Kazan SAM Defenses (in defense of Kazan: aircraft parts, engines, and airframes; optical equipment, explosives, synthetic rubber, and chemical production)							
9	Kazan SAM Site B01-2,	56-03-45N 49-11-30E	UR 0155-23	SA-2, star			
D. Yurya ICBM Complex/Kirov SAM Defenses (in defense of Yurya ICBM Complex and Kirov: tire, railroad crane, aircraft parts, and agricultural equipment production; and metallurgical plants)							
10	Yurya ICBM Complex SAM Site B28-2,	59-15-00N 48-58-00E	UR 0155-8	SA-2, link			
11	Yurya ICBM Complex SAM Site B04-2,	59-20-00N 49-45-00E	UR 0155-8	SA-2, star			
12	Yurya ICBM Complex SAM Support Facility,	59-10-10N 49-25-00E	UR 0155-8	Type II (square)			
13	Yurya ICBM Complex SAM Site B23-2,	58-55-30N 49-03-55E	UR 0155-8	SA-2, star			
14	Yurya ICBM Complex SAM Site B12-2,	59-05-55N 49-56-40E	UR 0155-8	SA-2, star			
15	Kirov SAM Support Facility,	58-32-20N 49-35-00E	UR 0155-8	Type II (square)			
16	Kirov SAM Site B17-2,	58-21-15N 49-46-55E	UR 0155-13	SA-2, star			
17	Kirov SAM Site C07-2,	58-46-50N 50-24-00E	UR 0155-8	SA-2, star			
E. Kirov to Glazov SAM Defenses (probable beginning of a barrier defense between Kirov and Glazov)							
18	Kirov SAM Site D12-2,	58-24-20N 50-38-50E	UR 0155-9	SA-2, star			
F. Glazov SAM Defenses (in defense of second largest Soviet atomic energy feed materials plant)							
19	Glazov SAM Site B28-2	58-10-10N 52-10-40E	UR 0155-14	SA-2, star			This site, carried by NPIC as a Category I SA-0, does not display the configuration of a Category I SA-0, but of a star configuration SA-2 SAM site.
20	Glazov SAM Site B01-2	58-18-30N 52-43-15E	UR 0155-14	SA-2, star			
21	Glazov SAM Support Facility,	58-06-25N 52-40-35E	UR 0155-14	Type I (rectangular)			
22	Glazov SAM Site A09-2	58-09-05N 53-00-00E	UR 0155-15	SA-2, star			
G. Glazov to Perm SAM Defenses (barrier defense between Glazov and Perm)							
23	Glazov SAM Site D10-2	58-02-30N 53-47-50E	UR 0155-15	SA-2, link			
24	Vereshchagino SAM Site A25-2,	58-03-30N 54-34-30E	UR 0155-15	SA-2, link			
H. Izhevsk SAM Defenses (in defense of large arms and machine equipment plant)							
25	Izhevsk SAM Site B01-2,	57-04-31N 53-13-02E	UR 0155-20	SA-2, unrevetted			No service road pattern is visible at this site.
26	Izhevsk SAM Site B36-2,	57-02-10N 53-09-02E	UR 0155-20	SA-2, link			
27	Izhevsk SAM Site A30-2,	56-54-50N 52-57-00E	UR 0155-20	SA-2, link			
28	Izhevsk SAM Support Facility,	56-48-42N 53-23-15E	UR 0155-20	Type I (rectangular)			

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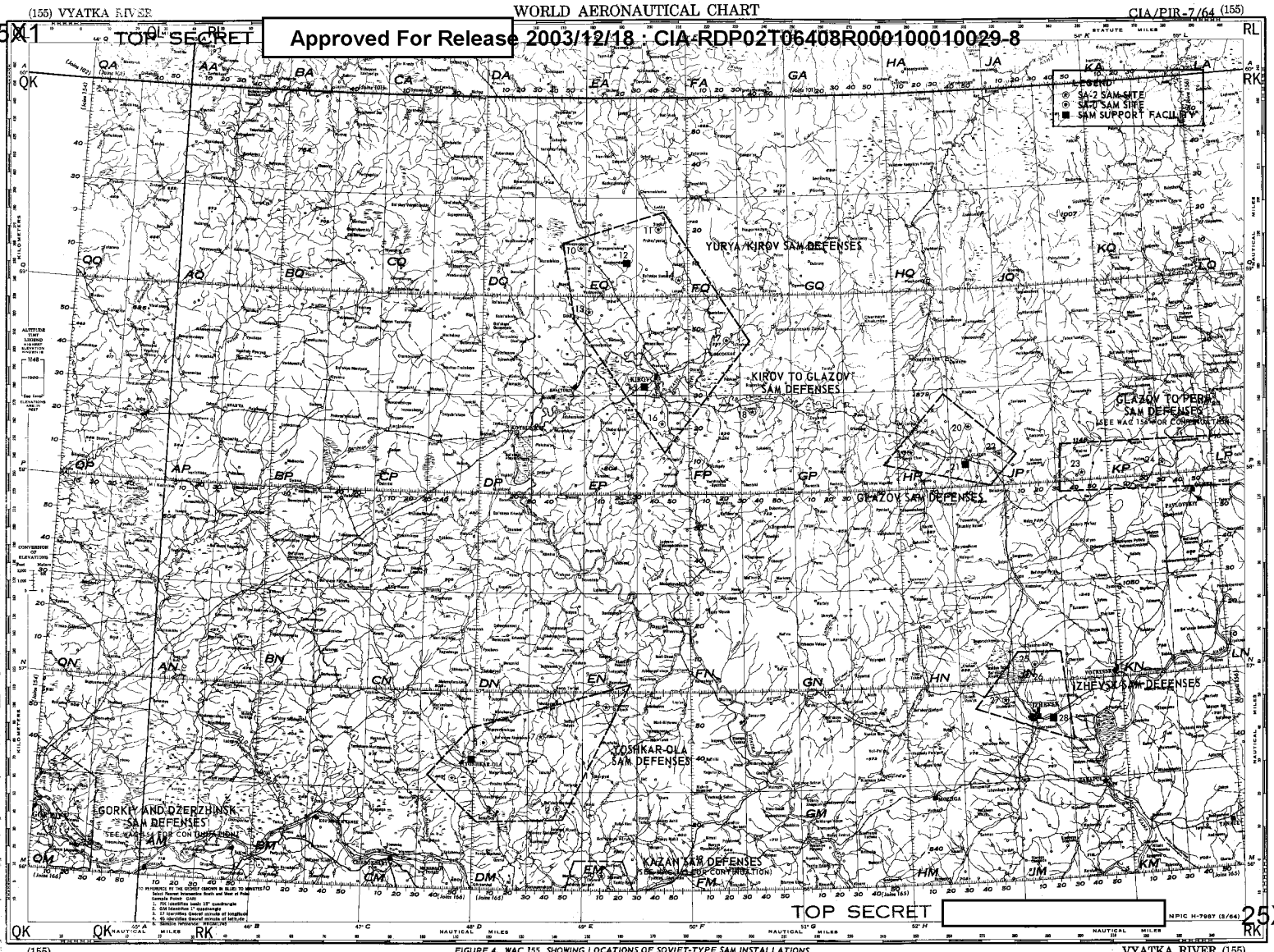

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FIGURE 4. WAC 155, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 3. SAM Installations on WAC 156

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A.	Berezniki SAM Defenses (in defense of Berezniki: large synthetic-ammonia, magnesium, and basic chemical plants)						
1	Berezniki SAM Site B03-2,	59-41-50N 57-00-55E	UR 0156-1	SA-2, link			
2	Berezniki SAM Support Facility,	59-23-05N 56-52-00E	UR 0156-1	Type II (square)			
3	Berezniki SAM Site A19-2,	59-14-55N 56-44-15E	UR 0156-1	SA-2, link			
B.	Perm to Glazov SAM Defenses (barrier defense between Perm and Glazov)						
4	Perm SAM Site D27-2,	58-00-00N 55-15-00E	UR 0156-11	SA-2, star			
C.	Perm SAM Defenses (in defense of Perm ICBM Complex and Perm: armaments and munitions combine, aircraft engine and assembly plants, chemical production, and missile static test facilities)						
5	Perm SAM Site B32-2,	58-11-30N 56-01-50E	UR 0156-11	SA-2, link			
6	Perm SAM Site B01-2,	58-18-50N 56-21-50E	UR 0156-11	SA-2, link			
7	Perm SAM Support Facility,	58-02-00N 56-23-00E	UR 0156-11	Type I (rectangular)			
8	Perm SAM Site B10-2,	58-01-00N 56-44-20E	UR 0156-11	SA-2, star			
D.	Perm to Nizhniy Tagil SAM Defenses (barrier defense between Perm and Nizhniy Tagil)						
9	Lysva SAM Site A25-2,	58-02-00N 57-31-40E	UR 0156-12	SA-2, probable link			
10	Nizhniy Tagil SAM Site D28-2,	57-57-45N 58-59-30E	UR 0156-12	SA-2, probable star			
11	Nizhniy Tagil SAM Site B27-2,	57-52-45N 59-33-15E	UR 0156-13	SA-2, star			
E.	Nizhnyaya Tura AE Complex SAM Defenses (in defense of Nizhnyaya Tura AE Complex: [redacted]						
12	Nizhnyaya Tura SAM Site B36-2,	58-48-00N 59-47-00E	UR 0156-8	SA-2, star			
13	Nizhnyaya Tura SAM Site B28-2,	58-38-00N 59-29-00E	UR 0156-8	SA-2, link			
14	Nizhnyaya Tura SAM Support Facility,	58-40-25N 59-38-20E	UR 0156-8	Type I (rectangular)			
15	Nizhnyaya Tura SAM Site B08-2,	58-40-00N 60-08-00E	UR 0156-8	SA-2, star			
16	Nizhnyaya Tura SAM Site B21-2,	58-27-40N 59-39-40E	UR 0156-8	SA-2, star			
F.	Nizhniy Tagil/Verkhnyaya Salda ICBM Complex SAM Defenses (in defense of Verkhnyaya Salda ICBM Complex and Nizhnyaya Salda steel plant; railroad freight car, armored combat vehicles, ingot steel, pig iron, and coke production at Nizhniy Tagil; and Verkhnyaya Salda aircraft parts plant)						
17	Verkhnyaya Salda ICBM Complex SAM Site D03-2,	58-43-15N 61-03-35E	UR 0156-8	SA-2, star			
18	Verkhnyaya Salda ICBM Complex SAM Site B33-2,	58-20-50N 60-15-20E	UR 0156-13	SA-2, star			
19	Nizhniy Tagil SAM Site B36-2,	58-05-45N 59-55-15E	UR 0156-13	SA-2, star			
20	Nizhniy Tagil SAM Support Facility,	57-52-05N 60-02-40E	UR 0156-13	Type I (rectangular)			
21	Nizhniy Tagil SAM Site C13-2,	57-43-10N 60-31-30E	UR 0156-13	SA-2, star			
22	Verkhnyaya Salda ICBM Complex SAM Site B12-2,	58-04-20N 61-01-20E	UR 0156-13	SA-2, star			
G.	Sverdlovsk/Verkh-Neyvinskiy SAM Defenses [redacted] Sverdlovsk heavy equipment, armaments, turbines, radio and television, [redacted]						
23	Verkh-Neyvinskiy SAM Site B24-2	57-08-45N 59-48-55E	UR 0156-18	SA-2, link			
24	Verkh-Neyvinskiy SAM Site A32-2	57-21-30N 59-54-55E	UR 0156-18	SA-2, link			
25	Verkh-Neyvinskiy SAM Support Facility,	57-16-50N 60-04-00E	UR 0156-18	Type I (rectangular)			
26	Verkh-Neyvinskiy SAM Site B04-2,	57-26-25N 60-20-05E	UR 0156-18	SA-2, link			
27	Verkh-Neyvinskiy SAM Site B09-2,	57-18-30N 60-41-15E	UR 0156-18	SA-2, link			
28	Sverdlovsk SAM Site B05-2,	57-01-15N 60-53-50E	UR 0156-18	SA-2, link			
29	Sverdlovsk SAM Site A01-2,	56-57-20N 60-38-30E	UR 0156-18	SA-2, star			
30	Sverdlovsk SAM Support Facility,	56-52-45N 60-49-15E	UR 0156-18	Type I (rectangular)			
31	Sverdlovsk SAM Site B13-2,	56-43-40N 60-57-05E	UR 0156-23	SA-2, link			
32	Sverdlovsk SAM Site B22-2,	56-41-00N 60-29-15E	UR 0156-23	SA-2, link			
33	Sverdlovsk SAM Site B28-2,	56-51-55N 60-14-40E	UR 0156-18	SA-2, link			

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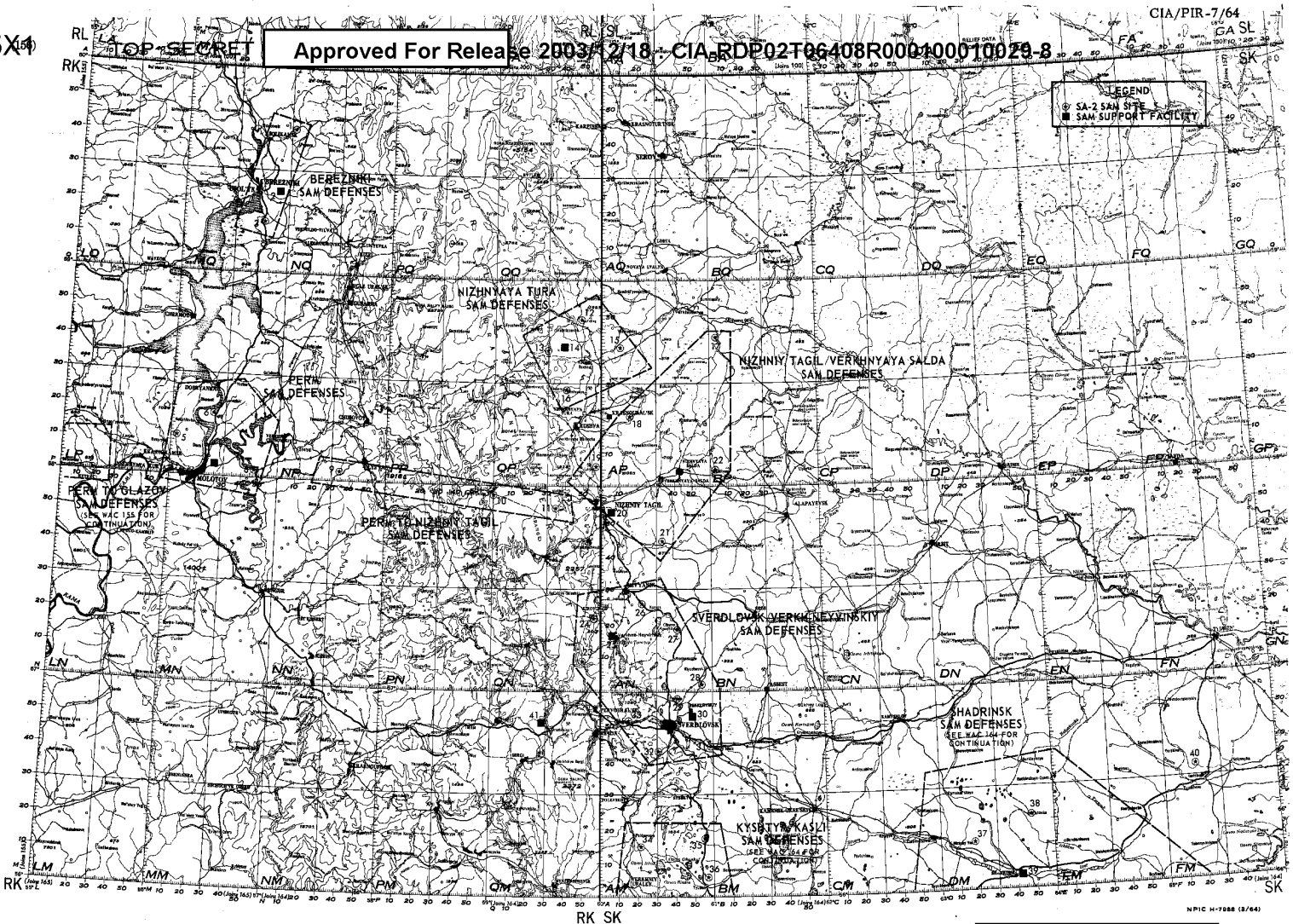

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FIGURE 5. WAC 156, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 3. (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
	H. Kyshtym/Kasli SAM Defenses						
34	Sverdlovsk SAM Site D20-2,	56-14-45N 60-20-00E	UR 0156-23	SA-2, star			
35	Sverdlovsk SAM Site D17-2,	56-16-50N 60-54-30E	UR 0156-23	SA-2, link			
36	Kasli SAM Site B03-2,	56-05-05N 60-56-30E	UR 0156-23	SA-2, Configuration undetermined			This site is under construction and has not yet assumed a configuration.
	I. Shadrinsk ICBM Complex SAM Defenses (in defense of Shadrinsk ICBM Complex)						
37	Shadrinsk SAM Site B31-2,	56-13-00N 63-17-00E	UR 0156-24	SA-2, link			
38	Shadrinsk SAM Site B02-2,	56-21-16N 63-47-15E	UR 0156-24	SA-2, link			
39	Shadrinsk SAM Support Facility,	56-03-05N 63-41-50E	UR 0156-25	Type II (square)			
	J. Installations which at present do not fit a defense pattern						
40	Tyumen ICBM Complex SAM Site C22-2,	56-32-00N 65-16-30E	UR 0156-25	SA-2, link			This is the only site identified thus far in the vicinity of the Tyumen ICBM Complex. It probably represents the beginning of a defensive pattern which will surround the ICBM complex.
41	Druzhinino SAM Storage Site 2,	56-50-00N 59-25-00E	UR 0156-18	Missile assembly & storage facility			Large missile assembly and storage plant is similar to those near Moscow and Zhitomir. It probably provides support for the entire central Urals area, rather than for any one defense complex.

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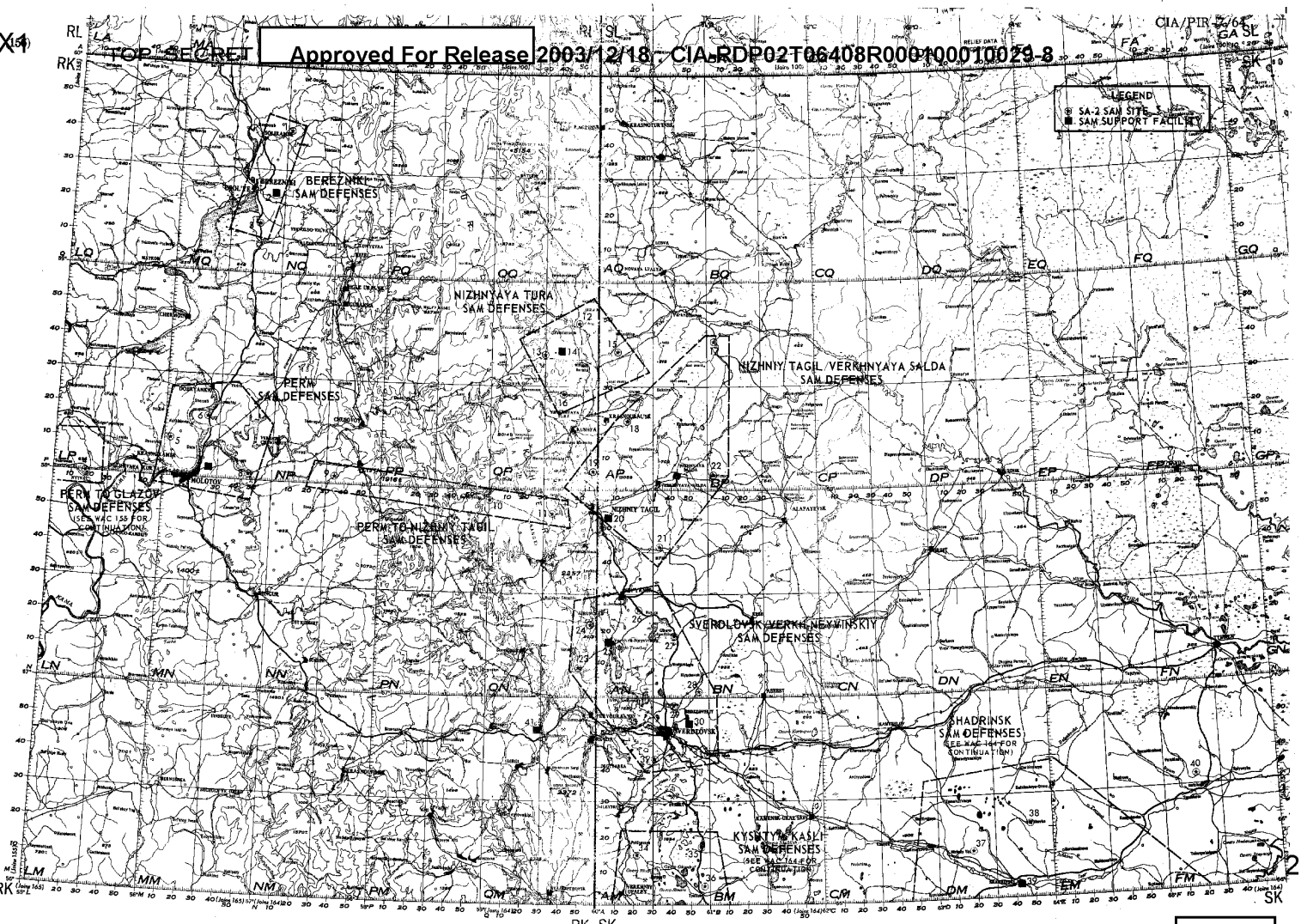

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FIGURE 5 (REPEAT). WAC 156, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 4. SAM Installations on WAC 158

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A.	Tomsk SAM Defenses (in defense of Tomsk Atomic Energy Complex, and Bearing Plant 5)						
1	Tomsk SAM Site B29-2, [redacted]	56-32-30N 84-37-30E	UR 0158-24	SA-2, prob star	[redacted]		
2	Tomsk SAM Site B33-2,	56-41-10N 84-44-05E	UR 0158-24	SA-2, link			
3	Tomsk SAM Site B02-2,	56-45-05N 85-06-05E	UR 0158-24	SA-2, link			
4	Tomsk SAM Site A03-2,	56-32-30N 85-00-30E	UR 0158-24	SA-2, link			

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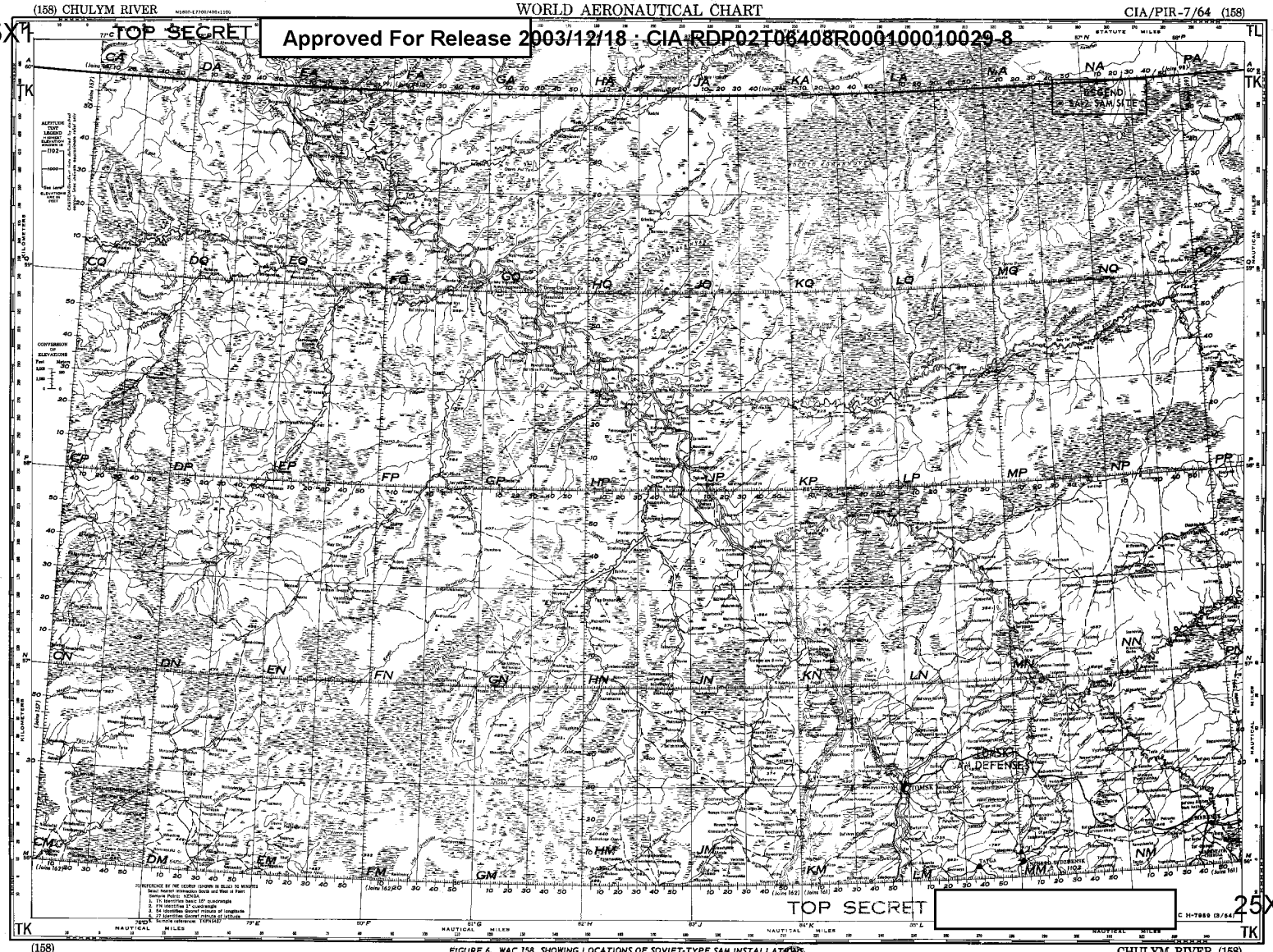

FIGURE 6. WAC 158, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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Table 5. SAM Installations on WAC 159

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A.	Nazarovo SAM Defenses (in defense of Nazarovo Thermal Power Plant GRES)						
1	Achinsk SAM Support Facility,	56-11-15N 90-25-30E	UR 0159-22	Type II (square)			
2	Nazarovo SAM Site B04-2,	56-10-10N 90-39-30E	UR 0159-22	SA-2, link			
B.	Krasnoyarsk/Dodonovo SAM Defenses						arms, synthetic rubber, steel, heavy equipment, chemical, and explosives production at Krasnoyarsk; and missile static test facility at Krasnoyarsk)
3	Gladkaya ICBM Complex SAM Site B17-2,	56-09-55N 92-34-50E	UR 0159-23	SA-2, link			
4	Startsevo SAM Support Facility,	56-10-40N 92-58-30E	UR 0159-23	Type II (square)			
5	Krasnoyarsk SAM Support Facility 1,	56-09-00N 93-21-30E	UR 0159-23	Type I (rectangular)			
6	Krasnoyarsk SAM Site C08-2,	56-08-45N 93-32-15E	UR 0159-23	SA-2, link			
7	Krasnoyarsk SAM Site B02-2,	56-18-30N 92-59-30E	UR 0159-23	SA-2, link			
8	Krasnoyarsk SAM Site D03-2,	56-30-45N 93-21-50E	UR 0159-23	SA-2, link			
9	Krasnoyarsk SAM Site D06-2,	56-20-00N 93-46-20E	UR 0159-23	SA-2, link			

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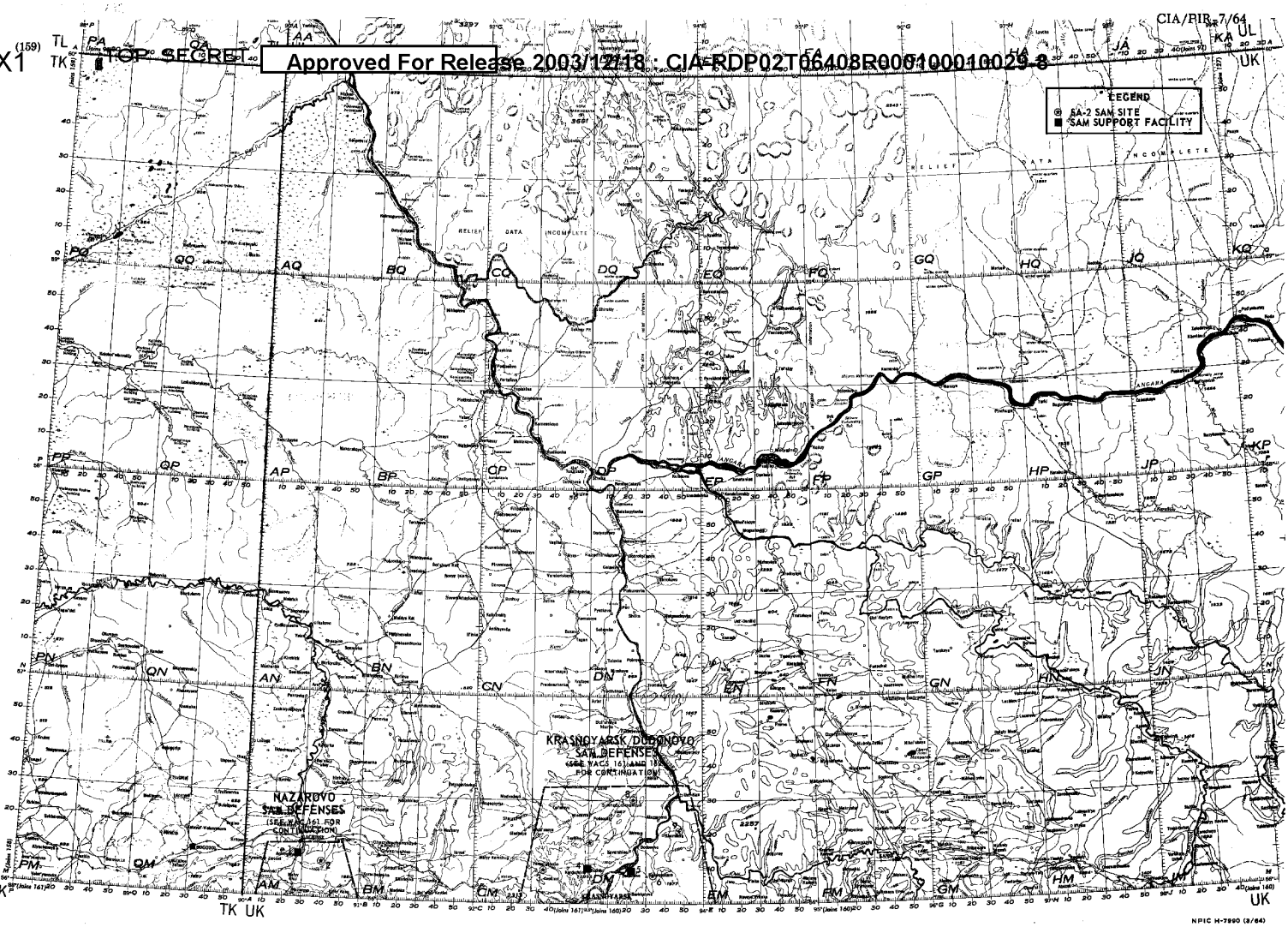

FIGURE 7. WAC 159, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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REQUIREMENT

CIA. C-RR3-80,733

PROJECT

C-1580/63 (partial answer)

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